**1.  Program to tell if a number is even or odd**

Write a program to check if a user’s input is even or odd.

Examples :

Input:  Enter an integer: -7

Output - 7 is odd.

Input:  Enter an integer: -8

Output - 8 is even.

Hint “if-else-elif” will come to play here.

**2.  Program to add two fractions**

Add two fraction a/b and c/d and print answer in simplest form.

Examples :

Input:  1/2 + 3/2

Output: 2/1

Input:  1/3 + 3/9

Output: 2/3

Input:  1/5 + 3/15

Output: 2/5

Hint, you can collect the data an split by “+” and the split each of the results again by “/”.

**3.  Program to reverse a string**

Write a program to print the reversed form of a string input by a user.

Examples :

Input :  Brian went to school and became a lawyer

Output : reywal a emaceb dna loohcs ot tnew nairB

Input :  Hydrogen

Output : negordyH

**\*\*\*\*** **Extra** : check if the word is a palindrome

A palindrome is a word, number, phrase, or other sequence of characters which reads the same backward as forward, such as madam or racecar or the number 10801 e.g

Input : Hannah

Output : Hannah and Hannah are the same

Input : Pedro

Output :Sorry Pedro and ordeP are not the same

**4.  Program to print 12 multiples table for a given number**

Write a program to print the 12 multiples of a number given by the user in the format below.

Examples :

Input :  5

Output : 5 \* 1 = 5

         5 \* 2 = 10

         5 \* 3 = 15

         5 \* 4 = 20

         5 \* 5 = 25

         5 \* 6 = 30

         5 \* 7 = 35

         5 \* 8 = 40

         5 \* 9 = 45

         5 \* 10 = 50

         5 \* 11 = 55

         5 \* 12 = 60

Input :  8

Output : 8 \* 1 = 8

         8 \* 2 = 16

         8 \* 3 = 24

         8 \* 4 = 32

         8 \* 5 = 40

         8 \* 6 = 48

         8 \* 7 = 56

         8 \* 8 = 64

         8 \* 9 = 72

         8 \* 10 = 80

         8 \* 11 = 88

         8 \* 12 = 96

**Subject:**UNIVELCITY - SATURDAY DATASCIENCE CLASS ASSIGNMENT

Here are the exercises ;

1. Create a program that asks the user to enter their name and their age. Print out a message addressed to them that tells them the year that they will turn 100 years old.

Extras:

1.     Add on to the previous program by asking the user for another number and printing out that many copies of the previous message. (*Hint:*[*order of operations*](http://www.mathsisfun.com/operation-order-pemdas.html)*exists in Python*)

2.     Print out that many copies of the previous message on separate lines. (*Hint: the string "\n is the same as pressing the ENTER button*)

1. Convert the following code into python code;

C = √A2 + B2

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1. Convert the following formula into python code;

                 C = √A2 + B2

    C. Write a program to add two fractions=20

            a. Display result in decimal

            b. Display result as fraction

     D. Write a program to check if there is the vowel "a" in a word.

     E. Write a program that takes in a persons name and prints it 1000times

     F. Write a program that returns the square of any number inputted.

     G. Write a program to tell if a number is divisible by 15 or not.